

## Search Again

**APEX U.S.A. L. L. C.**

11th and Illinois

Phone 316/325-3536

Neodesha KS 66757

### **MATERIAL SAFETY DATA SHEET**

#### **EMERGENCY INFORMATION**

**MEDICAL-** 1-800-633-9576

**TRANSPORTATION:** 1-800-535-5053

#### **SECTION ONE**

**PRODUCT NAME:** POWER PLUMBER

**PRODUCT CODE:** 77600,776001,77787,77030,77463,77872

**ISSUE DATE.** 01/17/94

#### **SECTION TWO - HAZARDOUS COMPONENTS**

EXPOSURE LIMITS	OSHA	ACGIH	OTHER	%	CAS NO
Dimethoxymethane	1000ppm	1000ppm	+1000ppm	5-10	109-87-5
1,1,1,2-Tetrafluoroethane	1000ppm	1000ppm		90-95	811-97-2

**NOTE:** +: United Kingdom Exposure Limit

#### **SECTION THREE - PHYSICAL DATA**

**BOILING POINT:** -15.5 F      **VAPOR PRESSURE**(mmHg or psig @ 70F)-80 psig **VAPOR**  
**DENSITY (AIR-1):** Heavier Than      **SPECIFIC GRAVITY (H2O-1):**1.177-1.2775  
**SOLUBILITY IN WATER % BY WT.:**<1%;10%  
**APPEARANCE AND ODOR:** Gaseous liquid with ethereal odor  
**EVAPORATION RATE (PUTTY ACETATE-1)** Faster than **VOC CONTENT % BY WT.**<10%

#### **SECTION FOUR - FIRE AND EXPLOSION HAZARD DATA**

**FLASH POINT:** Non-Flammable

**FLAMMABLE LIMITS:** UEL ND LEL None

**EXTINGUISHING MEDIUM:** Dry Chemical, Foam, Carbon Dioxide

#### **FIRE AND EXPLOSION HAZARD DATA**

**SPECIAL FIRE FIGHTING PROCEDURES:** If potential for exposure to vapors or products of combustion exists, wear complete personal protection equipment including self contained breathing apparatus with full face shield operated in a positive pressure mode. Thermal decomposition of this product is toxic. Water spray can be used to reduce intensity of flames, dilute spills and keep containers cool.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** Vapor is heavier than air and can travel long distances. May decompose during contact with flames, heating elements or in combustion engines releasing irritating, toxic and corrosive gases. Container may explode if heated due to resulting pressure use.

#### **SECTION FIVE - REACTIVITY DATA**

**STABILITY:** Stable

**INCOMPATIBILITY:** Strong alkalis, oxidizers, hydrogen peroxide, nitric acid, sulfuric acid, hydrochloric acid and other strong inorganic acids.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Hydrogen fluoride, carbon monoxide, carbon dioxide, methanol and formaldehyde.

**HAZARDOUS POLYMERIZATION:** Will not occur.

#### EFFECTS OF OVER EXPOSURE

**EYE CONTACT-** Irritant. Vapor is irritating to eyes. Liquid is irritating to eyes and may cause tissues to freeze.

**SKIN CONTACT;** Contact with liquid may cause tissues to freeze (frostbite). Chemical itself is not irritating.

**OTHER TOXIC EFFECTS:** This product does not contain any components listed by NTP or IARC or regulated by OSHA as a carcinogen.

**TARGET ORGAN TOXIN:** Target organs affected by exposure to this material are: eyes, skin, central nervous system, respiratory system and heart.

**- TOXICITY COMMENTS:** Dense vapor displaces breathing air in confined or unventilated areas. Inhaling concentrated vapors can cause drowsiness, unconsciousness, respiratory depression and death due asphyxiation. This compound also increases the sensitivity of the heart to adrenaline, possible resulting in rapid heart beat (tachycardia), irregular heart beat (cardiac arrhythmias) and depression of cardiac function. Persons with pre-existing heart disease may be at increased risk from exposure.

Refrigerant 134a has a low acute inhalation toxicity (4 hour  $LC_{50}$  in the rat >500,000 ppm). It is an eye irritant and is not a skin sensitizer. Cardiac sensitization is seen in dogs at concentrations above 750,000 ppm after intravenous adrenaline administration. Sub-chronic toxicity in rats is very low and the no-effect-level is 50,000 ppm. In vitro (Ames test, saccharomyces gene mutation, cell transformation and human lymphocyte cytogenetics) and in vivo (dominant lethal, rat bone marrow, micronucleus and DNA repair) genotoxicity assays were all negative.

#### EMERGENCY AND FIRST AID PROCEDURES

**EYE CONTACT-** Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.

**SKIN CONTACT:** Flush skin with plenty of water. remove contaminated clothing. Wash clothing before reuse. Get medical attention. If frostbitten, warm skin slowly with water.

**INHALATION.** If high concentrations are inhaled, remove to fresh air. If not breathing, give artificial respiration. if breathing is difficult, give oxygen. Call a physician.

**INGESTION:** Ingestion is not considered a potential route of exposure. Product is a gas under normal conditions. never give anything by mouth to an unconscious person.

#### SECTION SEVEN - ENVIRONMENTAL AND DISPOSAL INFORMATION

**ACTION TO TAKE FOR SPILLS/LEAKS:** Ventilate area - especially low places where heavy vapors might collect. remove open flames. Comply with federal, state and local regulations on reporting releases. Self-contained breathing apparatus (SCBA) is required if a large spill or release occurs.

**WASTE DISPOSAL METHOD:** Reclaim by distillation if possible or remove to a permitted waste disposal facility in accordance with local, state and federal regulations.

#### SECTION EIGHT

**Handling and storage precautions:** Store in tightly sealed containers. Keep away from heat, sparks and open flame. Do not get in eyes, or skin or clothing. Do not breath vapor, mist or gas. Do not store or transfer to an unmarked container. Do not throw empty containers in trash compactor. Do not store in direct sun. store containers below 120 F. Read label before using- Empty containers may contain hazardous residue. Do not drop, reuse or refill container. Do not smoke around this product. Do not cut, grind, or weld on or near container due to possible toxic fume generation.

#### SECTION NINE - SPECIAL PROTECTION INFORMATION

**RESPIRATORY PROTECTION (SPECIFY TYPE):** Supplied air; SCBA in case of release or fire, in adequately ventilated areas or NIOSH/MSHA approved respirator.

**ventilation:** Use with adequate ventilation. Check air for contamination and for oxygen deficiency. Where ventilation is inadequate, use a local exhaust system to remove vapors.

**PROTECTIVE GLOVES:** Any lined non-permeable rubber gloves.

**EYE PROTECTION:** Chemical splash goggles with shields.

**OTHER PROTECTIVE EQUIPMENT:** Non-permeable clothing to protect skin from liquid contact.

#### SECTION TEN - REGULATORY INFORMATION

CHEMICAL  
1,1,1,2-Tetrafluoroethane

CAS NUMBER  
811-97-2

CONCENTRATION %  
90-95

FEDERAL EPA: Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) requires the notification of the National Response Center of release of quantities of hazardous substances equal to or greater than the reportable quantities (lbs) in 40 dr 302.4.

CHEMICAL	CASE NUMBER	CONCENTRATION %	UPPERBOUND RQs IN #S
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Not Listed

CALIFORNIA PROPOSITION 65: No

MASSACHUSETTS RIGHT TO KNOW: Yes

Dimethoxymethane	109-87-5	10
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PENNSYLVANIA RIGHT TO KNOW: Yes

1,1,1,2-Tetrafluoroethane	811-97-2	95
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Dimethoxymethane	109-87-5	10
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TOXIC SUBSTANCES CONTROL ACT (TSCA) STATUS- All Listed

NEW JERSEY RIGHT TO KNOW Yes

DIMETHOXYMETHANE	109-87-5	10
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CALIFORNIA VOC'S- <10%

NFPA RATING AS AN AEROSOL- 1

EMIS: Health 1 Reactivity 0 Flammability 0

SHIPPING REGULATIONS-

DOT: ORM-D

IATA/ICAO: Aerosols, Non-Flammable, N.O.S. 2.2

UN1950	Y203	LTD CITY
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IMDG.-

CARCINOGENICITY	CHEMICAL	IARC	NTP	OSHA
None Listed				

UPC: 772806778727, 772806776006

SKU: 4011094, 4011029

RYC: 94